

CLAIMS

1. A method for paging a target mobile station (MS), the method comprising:

receiving information destined for a target MS; and

paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell.

2. The method of claim 1, further including sending the information to the target MS, if the target MS is located.

3. The method of claim 2, further including determining a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.

4. The method of claim 3, further including sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.

5. The method of claim 3, further including determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.

6. The method of claim 5, further including sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.

7. A computer-readable medium storing codes for enabling a processor to perform a method for paging a target mobile station (MS), the method comprising:

receiving information destined for a target MS; and

paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell.

8. The computer-readable medium of claim 7, the method further including sending the information to the target MS, if the target MS is located.

9. The computer-readable medium of claim 8, the method further including determining a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.

10. The computer-readable medium of claim 9, the method further including sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.

11. The computer-readable medium of claim 9, the method further including determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.

12. The computer-readable medium of claim 11, the method further including sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.

13. An apparatus for paging a target mobile station (MS), comprising:
means for receiving information destined for a target MS; and
means for paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell.

14. The apparatus of claim 13, further including means for sending the information to the target MS, if the target MS is located.

15. The apparatus of claim 14, further including means for determining a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.

16. The apparatus of claim 15, further including means for sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.

17. The apparatus of claim 15, further including means for determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.

18. The apparatus of claim 17, further including means for sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.

19. A base station controller (BSC) for paging a target mobile station (MS), comprising:

a receiver capable of receiving information from a target MS;

a transmitter capable of transmitting information to the target MS; and

a processor capable of carrying out a method for paging the target MS, comprising:

receiving information destined for a target MS; and

paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell.

20. The base station controller of claim 19, the method further including sending the information to the BSC for delivery to the target MS, if the BSC locates the target MS.

21. The base station controller of claim 20, the method further including determining a neighboring BSC that can locate the target MS, if the BSC could not locate the target MS.

22. The base station controller of claim 21, the method further including sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.

23. The base station controller of claim 21, the method further including determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.

24. The base station controller of claim 23, the method further including sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.